## WHAT IS CLAIMED IS:

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1	1. A matrix graft consisting essentially of collagen and elastin.
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1	2. A matrix graft in accordance with claim 1, said matrix graft being an
2	acellular matrix graft isolated from muscle tissue selected from the group consisting of
3	bladder tissue, heart tissue, intestine tissue or stomach tissue.
1	3. A matrix graft in accordance with claim 2, said graft being isolated from
2	bladder tissue.
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1	4. A matrix graft in accordance with claim 3, said matrix graft being
2	prepared from tissue isolated from an animal selected from the group consisting of rat,
3	rabbit, hampster, dog, pig and human.
3	Tabbit, Manapeter, W. B. T. C.
1	5. A matrix graft in accordance with claim 3, said matrix graft being
1	prepared from tissue isolated from an animal selected from the group consisting of rat,
2	reports hampster dog nig and human, and indicating essentially no cell nuclei when
3	stained with a dye selected from the group consisting of trichrome, H&E, $\alpha$ -actin and
4	1/1-
5	PGP.
	6. A matrix graft in accordance with claim 3, said matrix graft being
1	isolated from human bladder tissue and having an elastic modulus of about 0.40 to about
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3	0.80 MPa.
	7. A matrix graft in accordance with claim 3, said matrix graft being
1	isolated from rat bladder tissue and having an elastic modulus of about 0.80 to about
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3	2.10 MPa.
	8. A matrix graft in accordance with claim 3, said matrix graft being
1	8. A matrix graft in accordance with claim 5, said matrix graft some
2	isolated from pig bladder tissue and having an elastic modulus of about 0.25 to about
3	0.60 MPa.

	1	9. A method for the preparation of a bladder acellular matrix graft,
	2	comprising:
h	3	removing mucosa from an excised bladder cap to provide a bladder wall;
	4	(b) treating the bladder wall with chemical and enzyme agents to release
V.	¬ ¯ 5	introcallular components from said bladder wall to provide an intermediate matrix; and
	6	(c) solubilizing and removing cell membranes and intracellular lipids from
	7	said intermediate matrix to provide a bladder acellular matrix graft.
	1	10. A method in accordance with claim 9, wherein said removal of said
	2	mucosa is carried out mechanically.
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	1	11. A method in accordance with claim 9, wherein said enzyme agent is
i,fi	2	DNase.
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io io	1	12. A method in accordance with claim 9, wherein said chemical agent is
13	2	sodium azide.
- <u>-</u> -		13. A method in accordance with claim 9, wherein said mucosa is removed
	1	by scraping, said chemical agent is NaN <sub>3</sub> and said enzyme agent is DNase.
- 14	2	by scraping, said chemical agent is ivalva and said stage of
٠	1	14. A method of restoring bladder function in an animal having a partially
	2	damaged bladder, said method comprising:
	3	(a) removing the portion of the bladder which is damaged; and
	4	(b) replacing said portion with a bladder acellular matrix graft to promote
	5	regeneration of bladder tissue and restore said bladder function.
	1	15. A method in accordance with claim 14, wherein said animal is selected
	2	from the group consisting of rat, pig, dog and human.
		and the domestillar
	1	16. A method in accordance with claim 14, wherein said bladder acellular
	2	matrix graft is prepared according to claim 9 and is derived from xenographic tissue.

	1	17. A method in accordance with claim 14, wherein said bladder acellular
	1	matrix graft is prepared according to claim 9 and is derived from allographic tissue.
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	1	18. A method for promoting regrowth and healing of damaged or diseased
	2	muscle tissues, said method comprising replacing said damaged or diseased muscle tissue
	3	with an acellular matrix graft prepared from muscle tissue and consisting essentially of
		acellular collagen and elastin.
	4	accidial colleges said
	1	19. A method in accordance with claim 18, wherein said muscle tissue is
	1 2	selected from the group consisting of bladder, heart, intestine and stomach.
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	1	20. A method in accordance with claim 18, wherein said acellular matrix
ı,A	1	graft is organ-specific for said damaged or diseased muscle tissue.
Ü	2	grant is organ operations.
19 10		21. A method in accordance with claim 18, wherein said acellular matrix
j	1	graft is from autographic tissue.
.=	2	grant is from autograpme troops
		22. A method in accordance with claim 18, wherein said acellular matrix
Ö	1	graft is from allographic tissue.
14	2	graft is from anograpme tissue.
	_	23. A method in accordance with claim 18, wherein said acellular matrix
	1	
\	. 2	graft is from xenographic tissue.
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